MISSOURI BOTANICAL GARDEN

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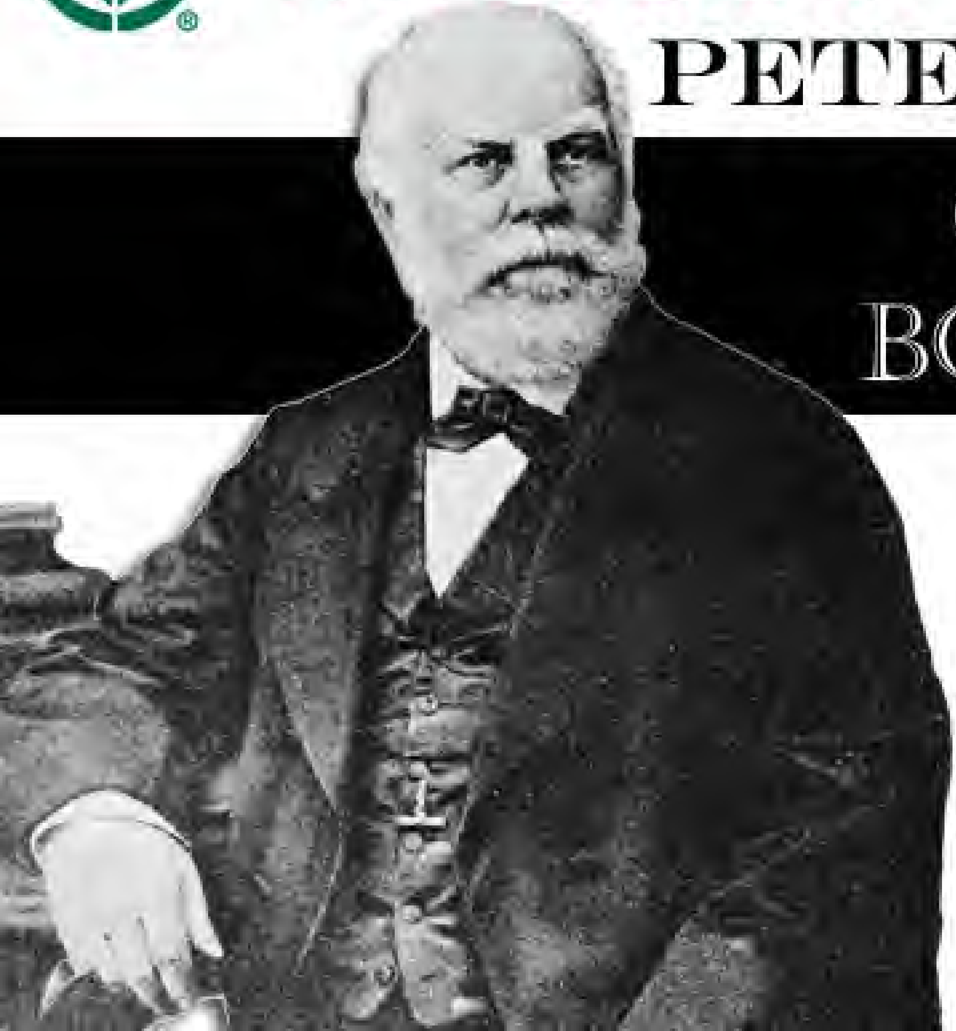


Pagination Note:
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

lavandulaefolia Vill.
limbata Meyer.
Montbretii Bth.
napifolia Jacq.
nilotica Vahl.
nivea Thg.
nubia Ait.
nudicaulis Vahl.
—*var.* pubescens
nutans Ait.
odorata Willd.
officinalis L.
—*var.* albiflora
—*var.* angustifolia
orbicularis Bth.
patens Cav.
pendula Vahl.
Philippi A. Br.
pinnata L.
polystachya Ait.
praecox Sav.
pratensis L.
—*var.* albiflora
prismatica Cav.
pseudo-aethiopis Boiss. et K.
psilantha Hort. Taur.
reptans Jacq.

hederacea Kth. et Bche.
lupulina L.
peregrina L.
Ventenati Hook.
Sideritis canariensis L.
macrostachya Parl.
montana L.
pullulans Vent.
Stachys byzantina Koch.
circinnata Herit.
citrina Heldr.
coerulea Burch.
delphinoides Jord.
germanica L.
Gilliesii Bth.
hypoleuca Hchst.
italica Mill.
jugalis Burch.
lanata Jacq.
menthaefolia Vis.
persica Gmel.
Poireti Ten.
setifera C. A. M.
spectabilis Chois.
subcrenata Vis.
sylvatica L.
Teucrium Arduini L.

cribrosum Rchbch.
diffusum Schrad.
grandiflorum Desf. v. rubr.
Mulleri Moris.
pallens Bnge.
usitatissimum L.

LOASEAE

Eucnide bartonioides Zucc.

LOBELIACEAE

Heterotoma lobelioides Zucc.
Laurentia Micheli Alph. DC
Lobelia Fabri Verl.
Siphocampylus bicolor Don.
lanceolatus Hort.
Tupa crassicaulis Hook.

LONICEREAE

Diervilla rosea Bartl.
Lonicera canescens Schousb.
caucasica Pall.
coerulea Guldenst.
—*var.* sphaerocarpa

Cupr erythrophloea

Cones 7-9 lin dia
6-8 scales

seed 2/4 lin
broad winged

10840

Nesaea grandiflora Hook.
  myrtifolia Desf.

MAGNOLIACEAE

Canella alba Murr.
Liriodendrum tulipifera L
Magnolia grandiflora L.
  —*var*. longifolia
  —*var*. oxoniensis
  —*var*. praecox
  —*subvar*. floribunda
    — gallionensis
    — gloriosa
    — lanceolata
  —*var*. undulata

MALPIGHIACEAE

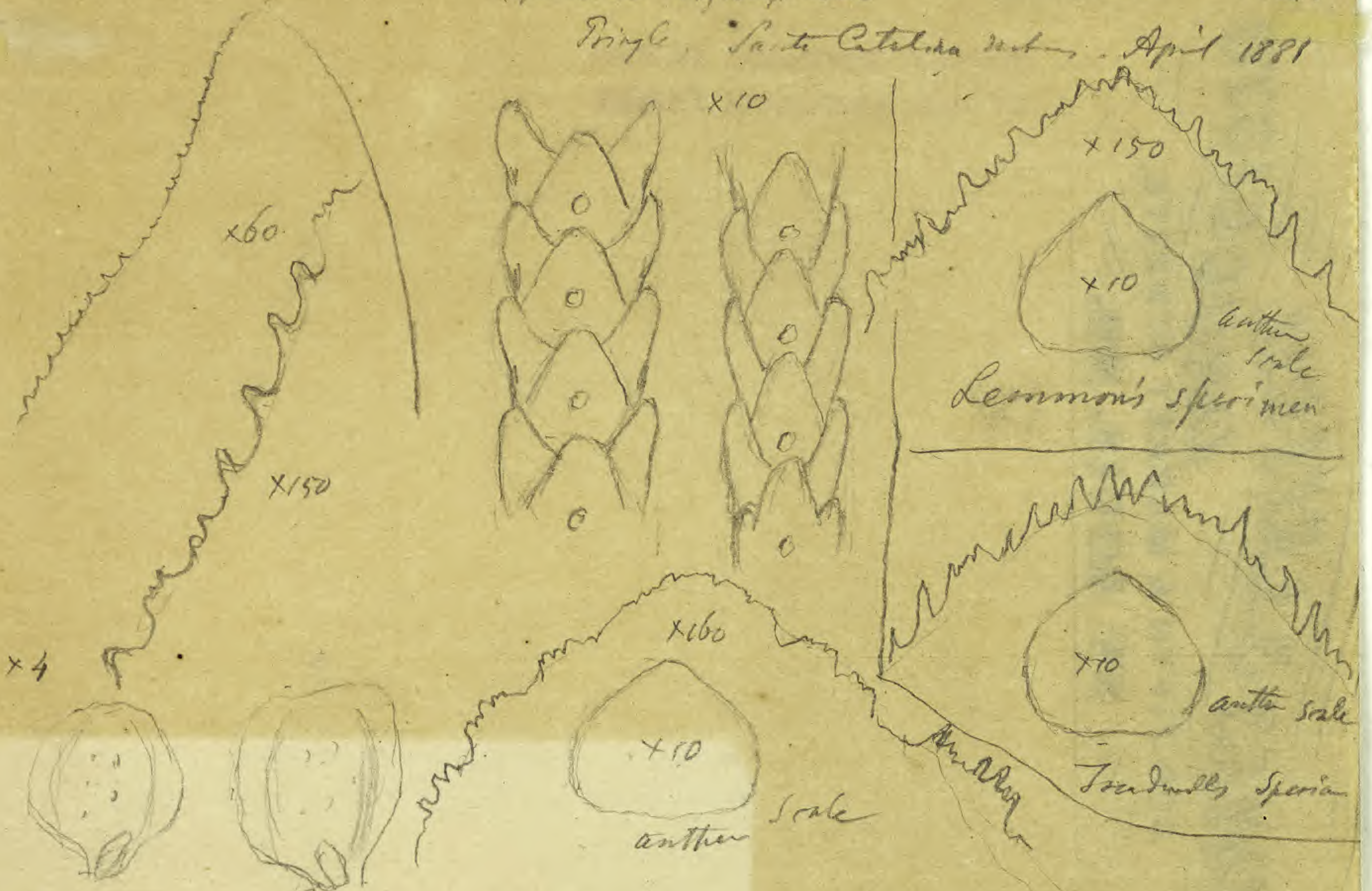
Bunchosia glandulifera Jacq. (1)
Byrsonima lucida DC.
Heteropteris chrysophylla HB.

  neglectum Tod.
  wightianum Tod.
  —*plur var*.
Hibiscus calycinus Willd.
  esculentus L.
  gossypinus Thg.
  grandiflorus Mchx v albus.
  immutabilis Dehnh.
  lampas Cav.
  liliiflorus L. *plur. var*.
  martianus Zucc.
  moschatus L.
  mutabilis L.
  —*var*. albiflorus
  palmatus Willd.
  Richardsonii Lindl.
  rosa sinensis L.
  —*var*. havanensis
  —*var*. intermedius
  —*var*. Warath
  roseus Lois.

Malvaviscus mollis DC.
Modiola caroliniana Don.
  multifida Mnch.
Pavonia hastata Cav.
  praemorsa Willd.
  spinifex Cav.
  zeylanica Cav.
Sida atropurpurea Blum.
  carpinifolia Lin. fil.
  corchorifolia Ten.
  herbacea Cav.
  micrantha St. Hil.
  retusa L.
  rhombifolia L.
  —*var*. canescens
  sonneratiana Cav.
  triloba Cav.
  triquetra L.
Sphaeralcaea umbellata St. Hil.
Urena scabriuscula Lin.
Waltheria elliptica Cav.

Cupressus erythrophloea Nov 16 1881

Pringle, Santa Catalina mts. April 1881



immature seeds
in April

10841

JONES & LEITCH,
DRUGGISTS
COR. FIFTH & MARKET STREETS,
ST. LOUIS, MO.

McKittrick & Co. Cor. Main & Vine.

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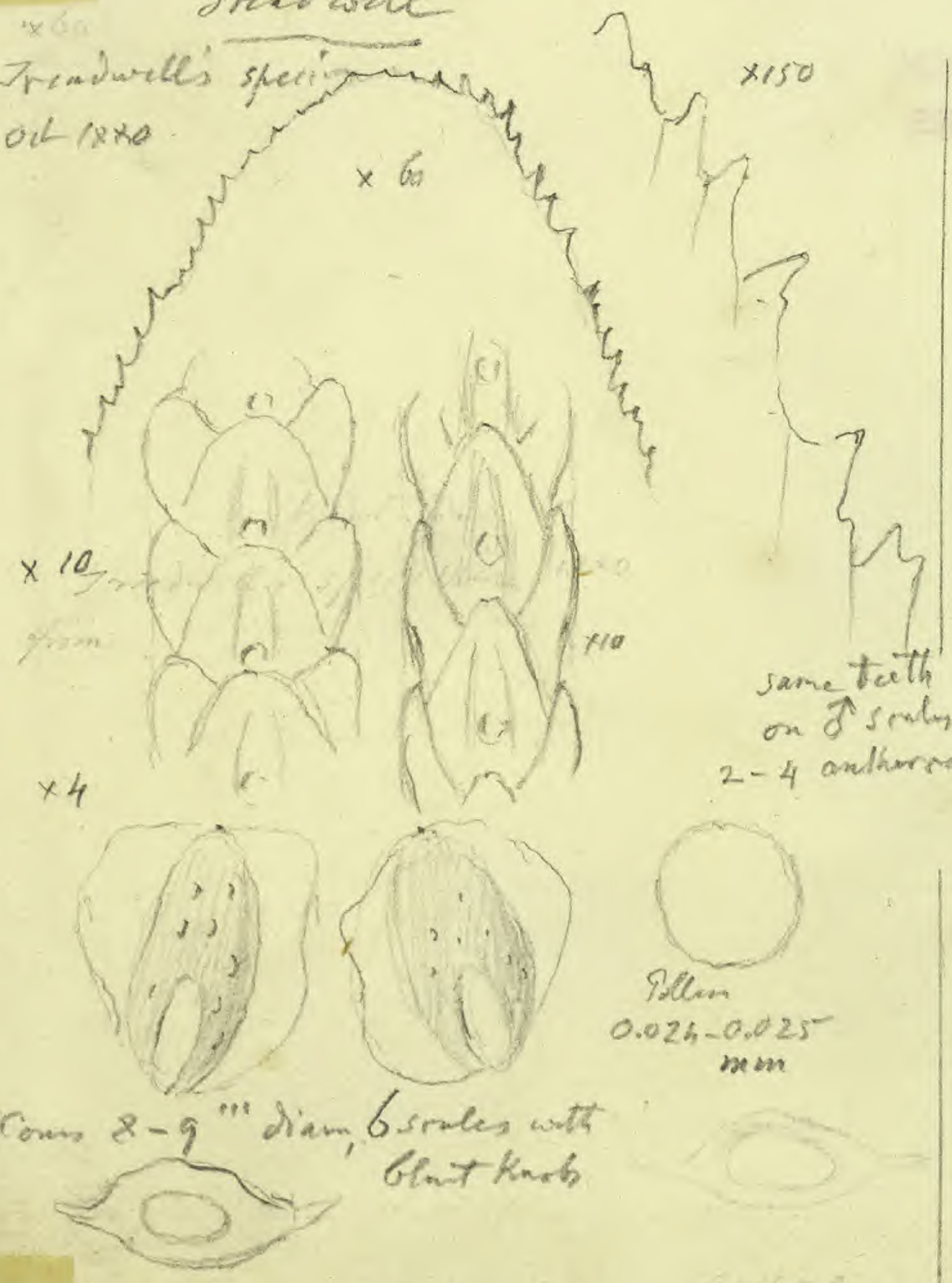
Cupressus erythrophloea   Nov 14 1881

Treadwell

Treadwell's specimen
Oct 1880

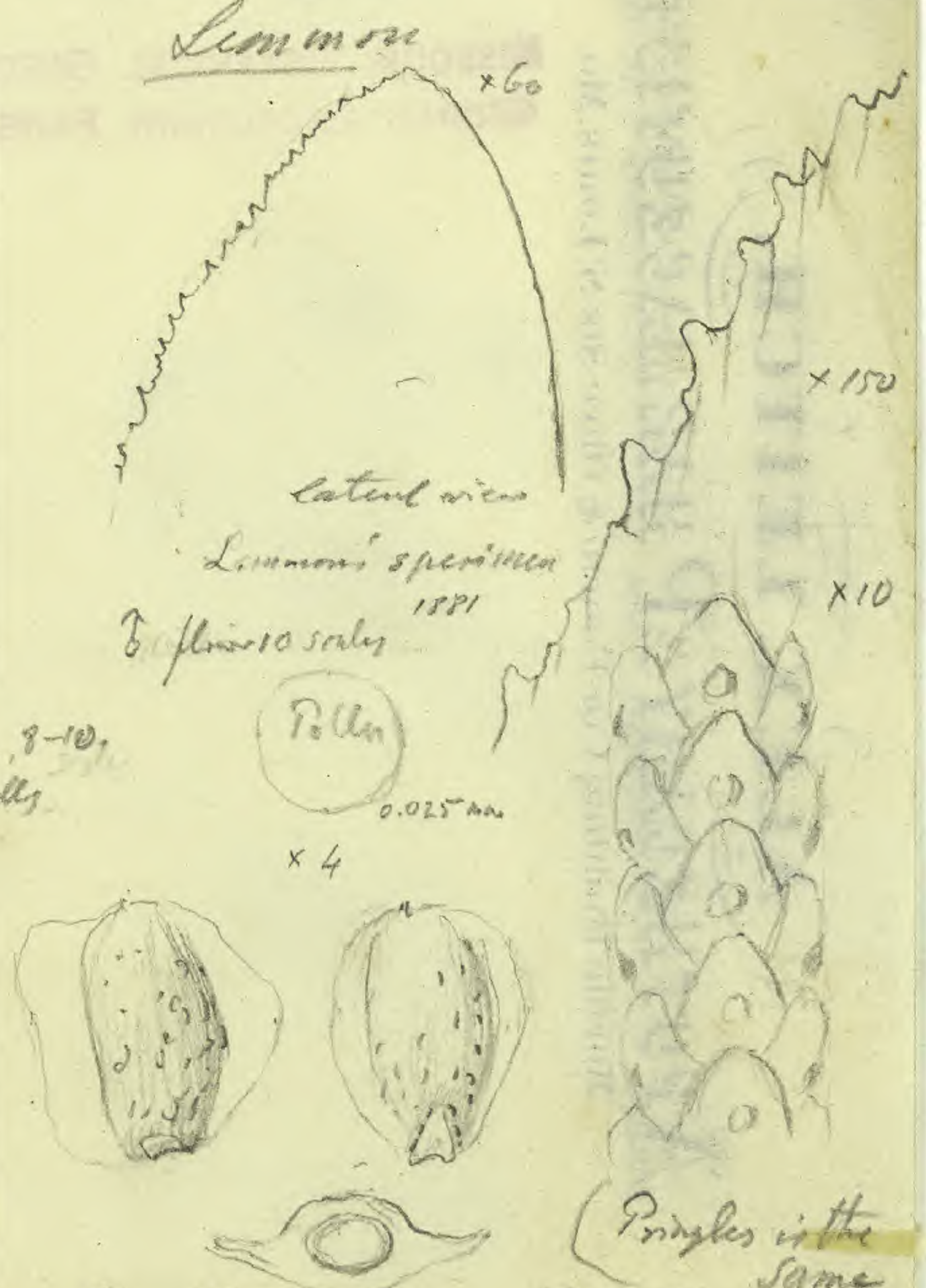


same teeth
on ♂ scales, 8-10,
2-4 antherocells

Pollen
0.024-0.025
mm

Cones 8-9''' diam, 6 scales with
blunt knobs

Lemmon



lateral view

Lemmon's specimen
1881

♂ flower 10 scales

Pringles is the
same

Cones 7-8 lines diam 8 scales [illegible]
with very prominent pointed knobs, upper incurved

10842

ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

Cupr. guadalupensis

Cones 10-12 lin
8 scales

Seed 2-2½ l.

LABIATAE

Anisomeles nepalensis Spr.
ovata R. Br.
Audibertia stachyoides Bth.
Ballota acetabulosa Bth.
africana Bth.
hirsuta Bth.
hispanica Bth.
italica Bth.
nigra Lin.
—*var*. alba
orbicularis Lag.
pseudo-dictamnus Bth.
rupestris Biv.
Betonica densiflora Bth.
lejocaulis Jord.
Calamintha adscendens Jord.
alpina Bth.
clinopodioides Bth.
cretica Bth.
nepalensis Hort.
nepeta Lk. et Hffm.
nepetoides Jord.
officinalis Mnch.
—*var*. villosissima
patavina Bth.
villosa Jacq. fil.
Cedronella triphylla Mnch.
Cleonia lusitanica Lin.
Leonurus lanatus Pers.
Lepechinia spicata Willd.
Lycopus europeus L.
Majorana crassifolia Bth.
Marrubium apulum Ten.
candidissimum Lin.
catariaefolium Desr.
creticum Mill.
Kotschyi Desr.
leonuroides Desr.
remotum W. et K.
sericeum Boiss.
Melissa officinalis L.
Mentha canescens Roth.
lavandulacea Willd.
macrostachya Ten.
niliaca Jacq.
pyramidalis Ten.
serotina Ten.
tomentosa Urvill.
abyssinica Bth.
Micromeria angustifolia Prsl.
consentina Ten.
dalmatica Bth.
graeca Bth.
juliana Bth.
—*var*. graeca
—*var*. hirsuta
marifolia Bth.
myrtifolia Boiss.
Occimum barbulatum Del.
canum L.
gratissimum L.
graveolens A. Br.
melissaefolium Vis.
petitianum A. Rich.
thymifolium Bth.
viride Willd.
Origanum confertum Sav.
fortuitum Sav.
glandulosum Desf.
heracleoticum Koch.
hirtum Lk.
libanoticum Boiss.
macrostachyum Lk.
normale Don.
onites L.
pallidum Desf.
paniculatum Koch.
sipyleum Lin.
stoloniferum Bess.
virens L.
—*var*. intermedium
Phlomis armeniaca Boiss.
chrysophylla Boiss.
ferruginea Ten.
fruticosa L.
herba venti L.
tuberosa L.
virens DC.

Pelarg inquinans Ait. *v.* fulgens
- —*var.* grandiflorum
- —*var.* fl. albis
- —*var.* Linkii

lacerum Jacq.
lechianum Spin.
lobatum Willd.
lucido-roseum Hort.
macranthum Sweet.
malvaefolium Jacq.
marginatnm Link.
micranthum Eckl. Zehy.
ovale Herit.
papilionaceum Ait.
parvulum DC.
peltatum Ait.
platyphyllum Sw.
quercifolium Ait.
- —*var.* pinnatifidum

quinquevulnerum Willd.
radula Ait. *var.* major
raduloides Hort.
roseum Ait.
saniculaefolium Willd.
scandens Ehrh.
scutatum Sweet.

Globularia salicina L.

GNETACEAE

Ephedra altissima Desf.

GOODENIACEAE

Selliera radicans Cav.

HIPPOCASTANEAE

Aesculus hippocastanum L.
pavia L.
rubicunda Herb.

HYDROLEACEAE

Hydrolea spinosa Lin.
Romanzoffia sitchensis Cham.
Wigandia caracassana H. B.
- —*var.* floribunda
- —*var.* hybrida
- —*var.* imperialis
- —*var.* mexicana
- —*var.* Viguieri

ILICINEAE

Ilex aquifolium L. v. fol. variegatis.
opaca Ait
Prinos glaber L.

JASMINEAE

Fontanesia californica H. Bess.
phillyraeoides Labil.
Fraxinus excelsior L.
jaspida Desf.
rostrata Guss.
Jasminum arborescens Roxb.
confusum W.
dianthifolium Vis.
- —*var.* fol. lanceolatis

floridum Bge.
fruticans L.
- —*var.* ponticum

gracile Andr.
humile L.
javanicum Hort.
pubigerum Don.
revolutum Sims.

10843

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Cupressus

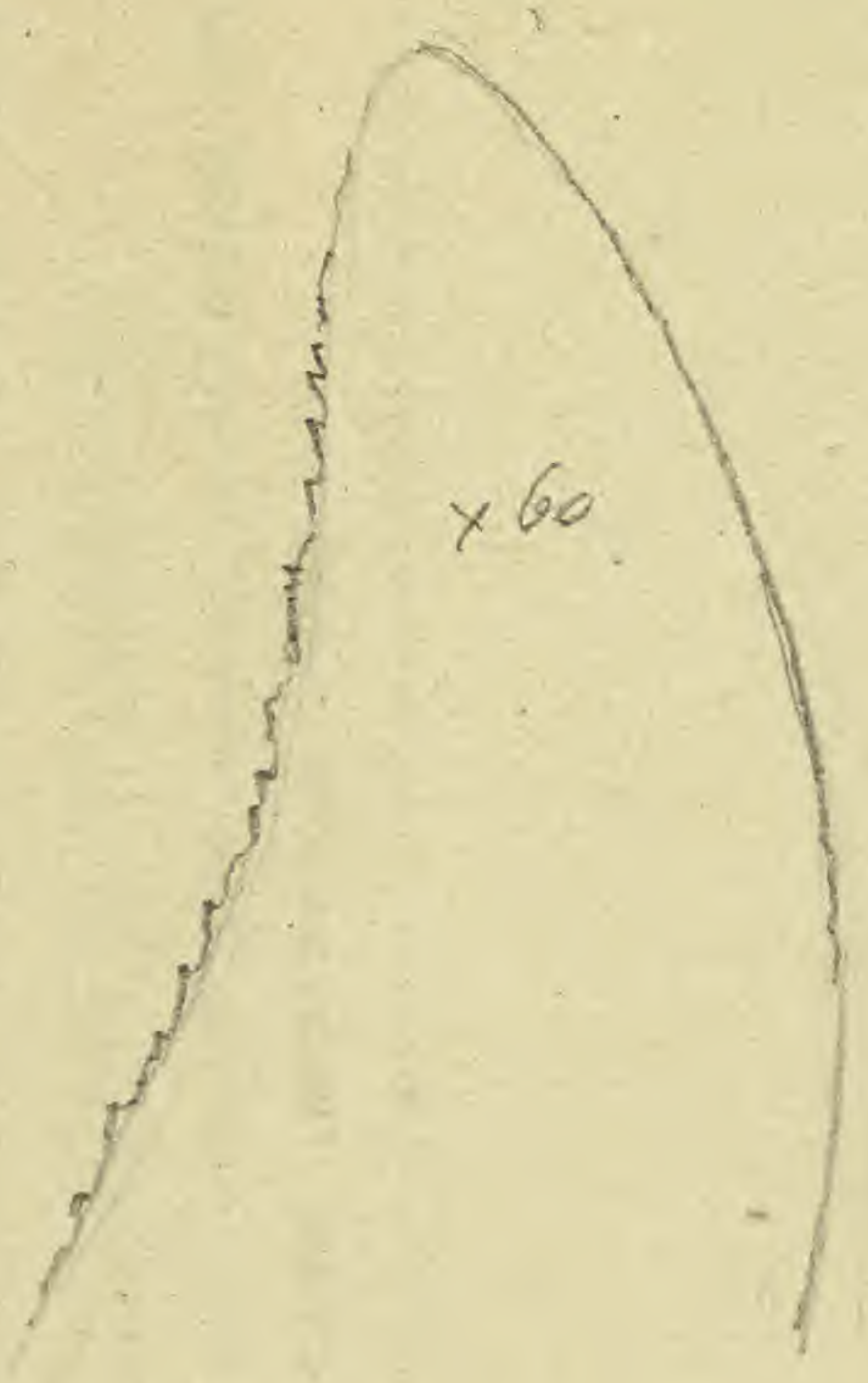
Guadelupe Isl and Palmer

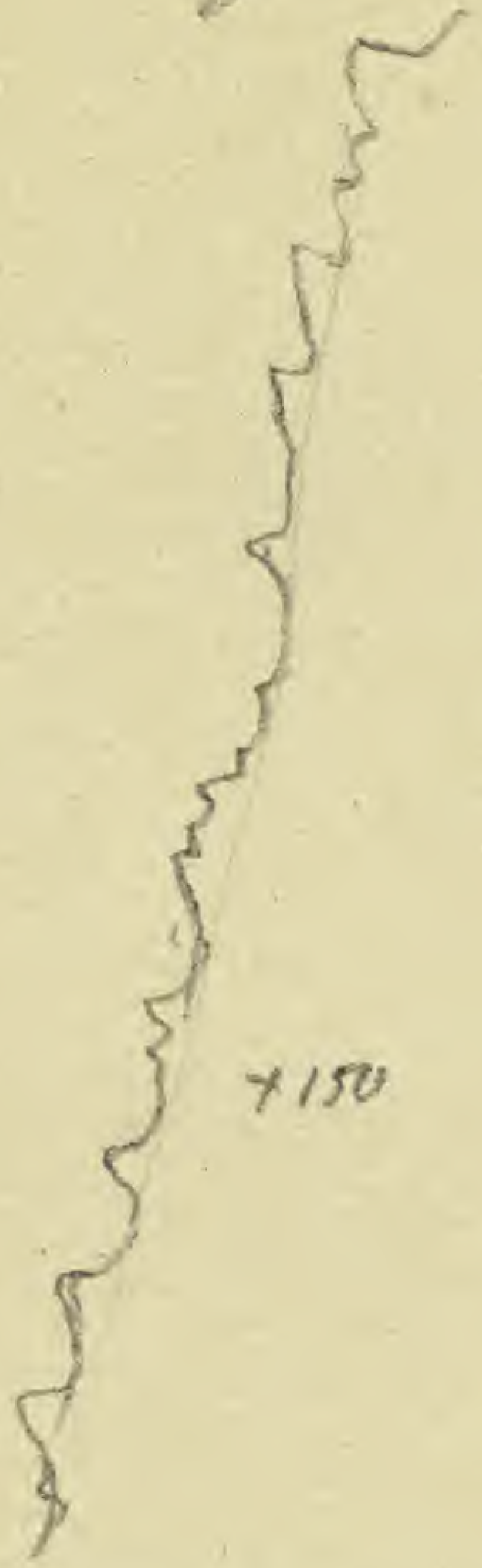
Nov 26 188

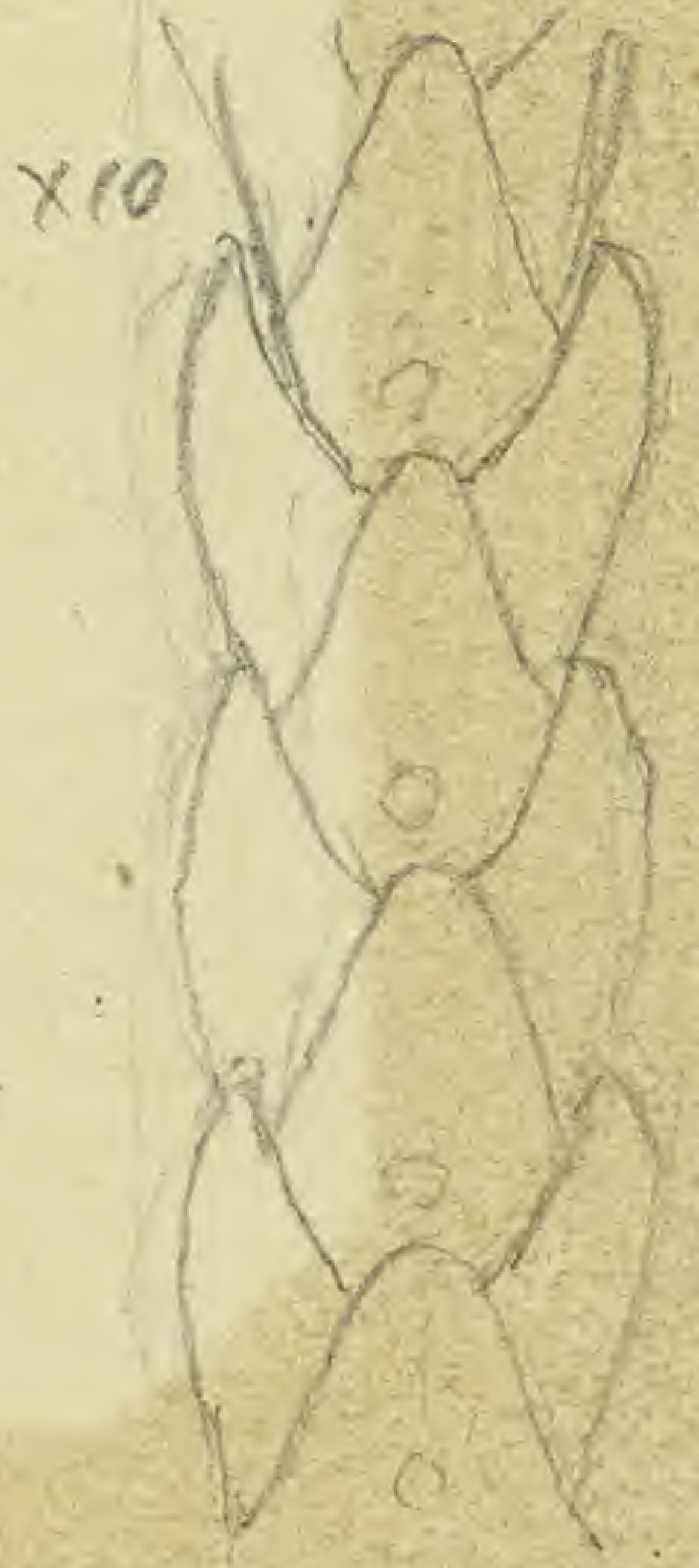
cones globose 12–14 l. diam

6 scales

with thick bosses a little above the center







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DRUGGISTS & PHARMACISTS,
No. 2934 Olive Street, S. E. Corner Garrison Avenue,
ST. LOUIS, MO.

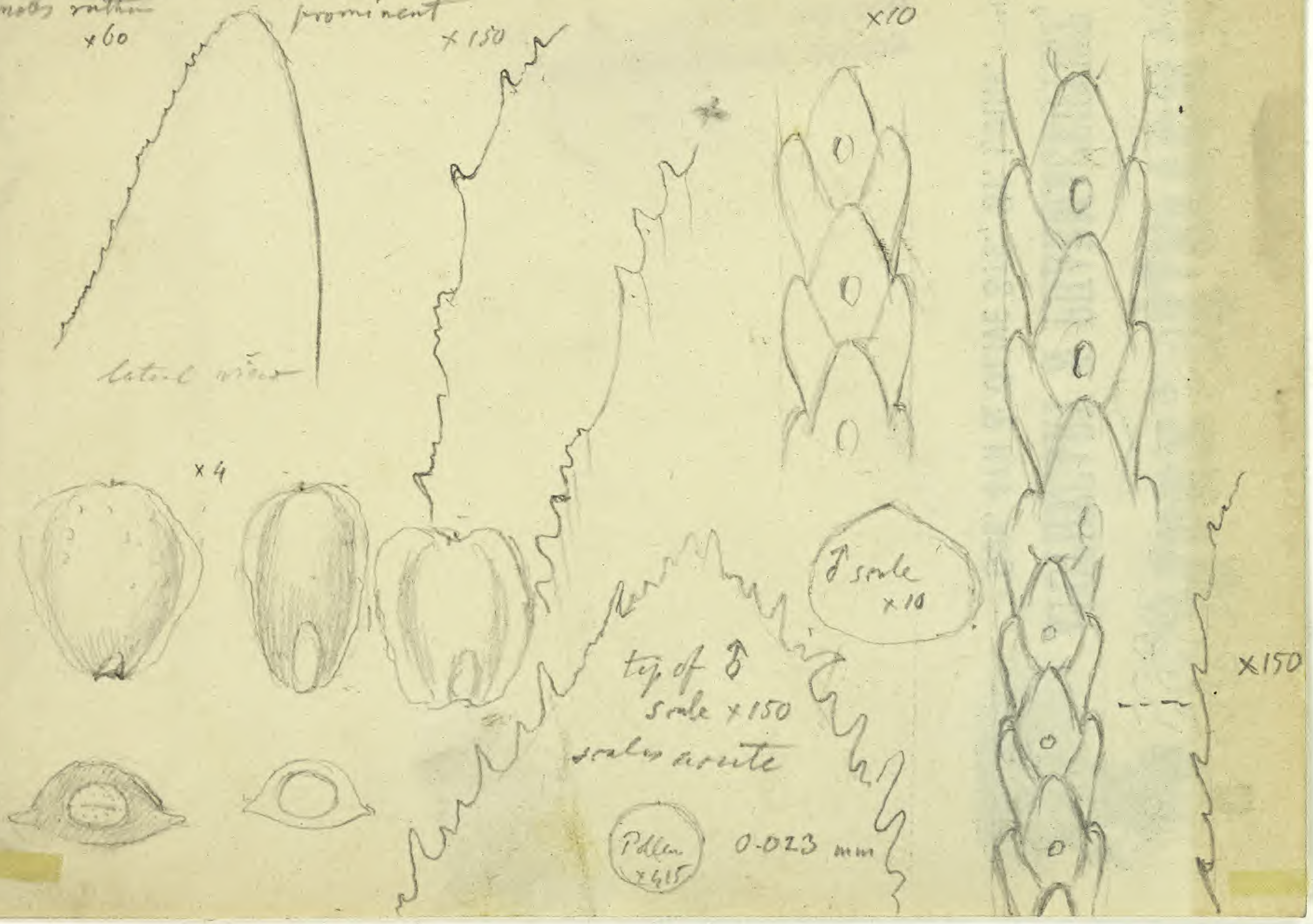
℞

10844

92 Cupressus Guadalupensis Watson
Guadalupe island C. Palmer

Nov 14 1881

Cones 10-12 lin diam, 8 scales, Knobbed towards tip
Knobs rather prominent



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COR. 4TH & OLIVE STS., ST. LOUIS.

10845

—*var.* oocarpa
—*var.* sylvestris
leonensis Lodd.
pumila Hort.
reclinata Jacq.
Sabal Adansonii Guerus.
palmetto Lodd.
princeps Hort.

PONTEDERIACEAE

Pontederia cordata L.

RESTIACEAE

Elegia deusta Endl.

SMILACINEAE

Danae racemosa Mnch.
Fluggea japonica Fisch.
Ophiopogon Jaburan Hort.
spicatus Ait.
—*var.* fol. argenteo-striatis
Polygonatum multiflorum All.
vulgare Red.
Rohdea japonica Roth.

laricio Poir.
mitis Mchx.
paroliniana Webb.
pinaster Ait.
—*var.* pyrenaica
pinea L.
—*var.* fragilis
pithyusa Strang.
pumilio Haenk.

ACANTHACEAE

Acanthus candelabrum H. Matr.
longifolius Poir.
lusitanicus Poir.
mollis L.
niger Mill.
schottianus Hort.
spinosissimus Desf.
spinosus L.
Adhatoda hyssopifolia N. ab E.
Arrhostoxylum formosum N. ab E.
fulgidum Mart.
Asteracantha longifolia N. ab E.
Cryphiacanthus lacteus N. ab E.
Cyrtanthera longiflora Nees.
superba Hort.

frutex

pseudo-platanus L.
rafinesquianum Tin.
saccharinum L.
tataricum L.
trifidum Thg.

AMARANTACEAE

Achyranthes alba Eckl.
Acroglochin persicarioides Moq.
Amarantus abyssinicus Hort.
melancholicus L.
—*var.* ruber
oleraceus L.
—*var.* albus
pallidus Bbrst.
salicifolius Weitch.
scandens L.
tricolor L.
—*var.* giganteus
Celosia cristata L.
pyramidalis Burm.
Euxolus caudatus Moq.
Gomphrena aurantiaca Dcne.
globosa L. *plur. var.*
Pupalia atropurpurea Moq.
Telanthera brasiliensis Moq.
b

C. attenuata Gordon ed 2 p 79
from Shasta probably here

Cupr. McNabiana Murr

Cones 6 lin diam
4–8 scales

seed 1½–2 lin
broad wing

lucida L.
pentaphylla Desf.
radicans L.
semialata Murr.
thyphina L.
undulata Jacq.
Schinus molle L.

ANONACEAE

Anona cherimolia Mill.
suavissima Tin.

APOCYNEAE

Alyxia daphnoides Hook.
Amsonia ciliata Walt.
Carissa grandiflora DC.
Cerbera lactaria Hamilt.
Lochnera rosea Rchbch.
—*var.* albiflora oculata
—*var.* immaculata
Nerium odorum L. *plur. var.*

ASCLEPIADEAE

Asclepias curassavica L.
linifolia Lag.
virgata Balb.
Cynanchum fuscatum Link.
Gomphocarpus fruticosus R. Br.
Gonolobus niger R. Br.
Oxypetalum capitatum Hook. et Arn
Stapelia anguinea Jacq.
bufonia Jacq.
mutabilis Jacq.
parvipunctata Tod.
scutellata Tod.
Vincetoxicum contiguum Koch.
purpurascens Dne. et Morr.

ASPERIFOLIAE

Alkanna lutea DC.

decaisneanum Vill.
fastuosum Jacq.
plantagineum L.
Ehretia tinifolia L.
Heliotropium europaeum L.
peruvianum L.
Lycopsis arvensis L.
variegata Alph. DC.
Myosotis hispida Schlcht.
lithospermifolia Horn.
palustris With.
sicula Guss.
Nonnea lutea DC.
nigricans DC.
Omphalodes aristata Schrk.
linifolia Mnch.
Symphytum asperrimum Bbrst.
peregrinum Ledeb.
tanaiticum Steph.
tauricum Willd.
Zeyheri Sch.

10846

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MISSOURI
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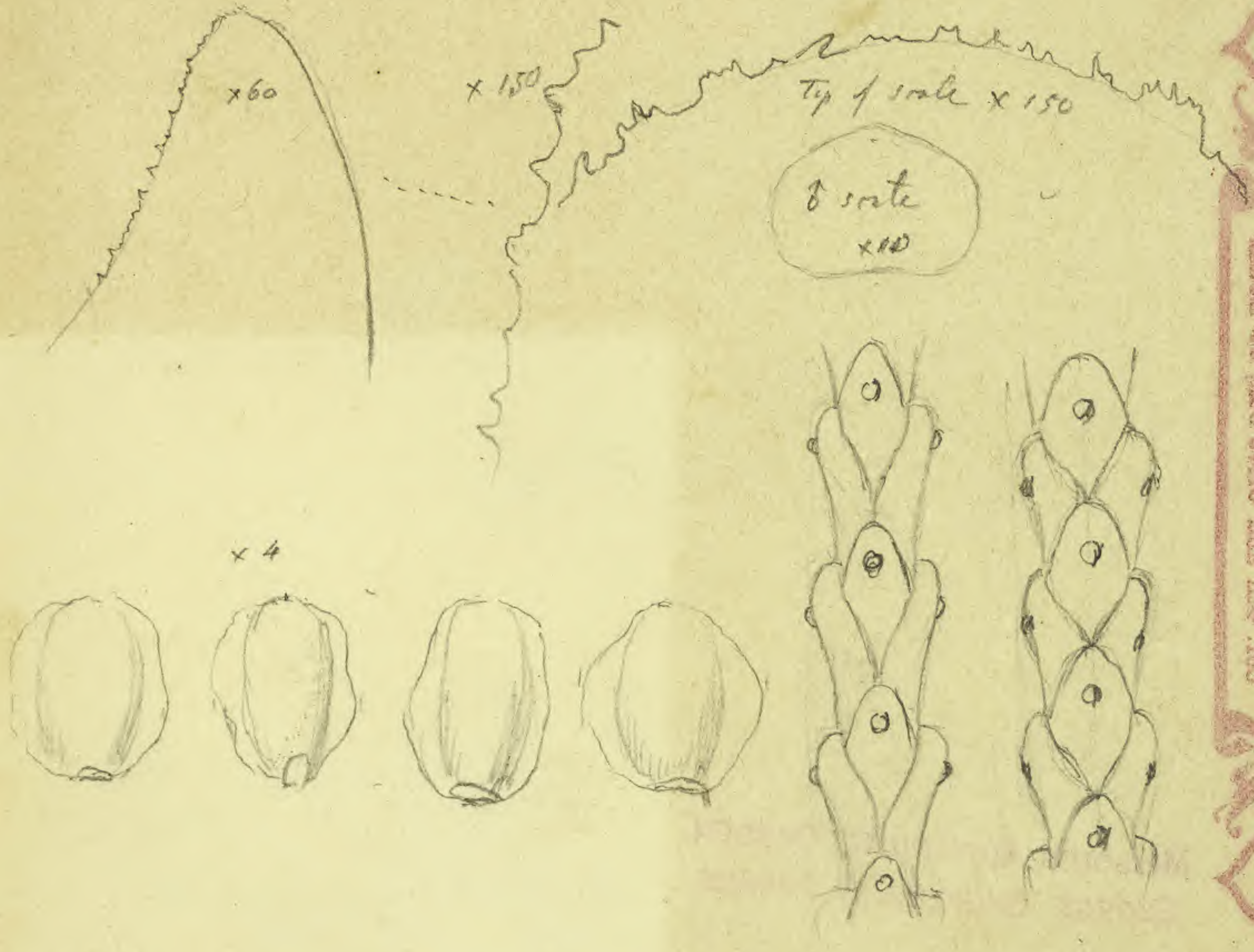
Nov 22 1881

Cupressus MacNabiana

Clear Lake, Brewer No 863

1861



Dec 1st stomata on both sides of leaf, on the sides, and on the dorsal fur

also below

globose

Cones 6 lines diam 4-8 scales, bosses subterminal acute, upper ones hooked

108.47

CHEMIST.

ALEX. LEITCH,
APOTHECARY & CHEMIST,
Cor. 4th and Olive Sts., St. Louis.

ALL THE NEW REMEDIES CONSTANTLY ON HAND

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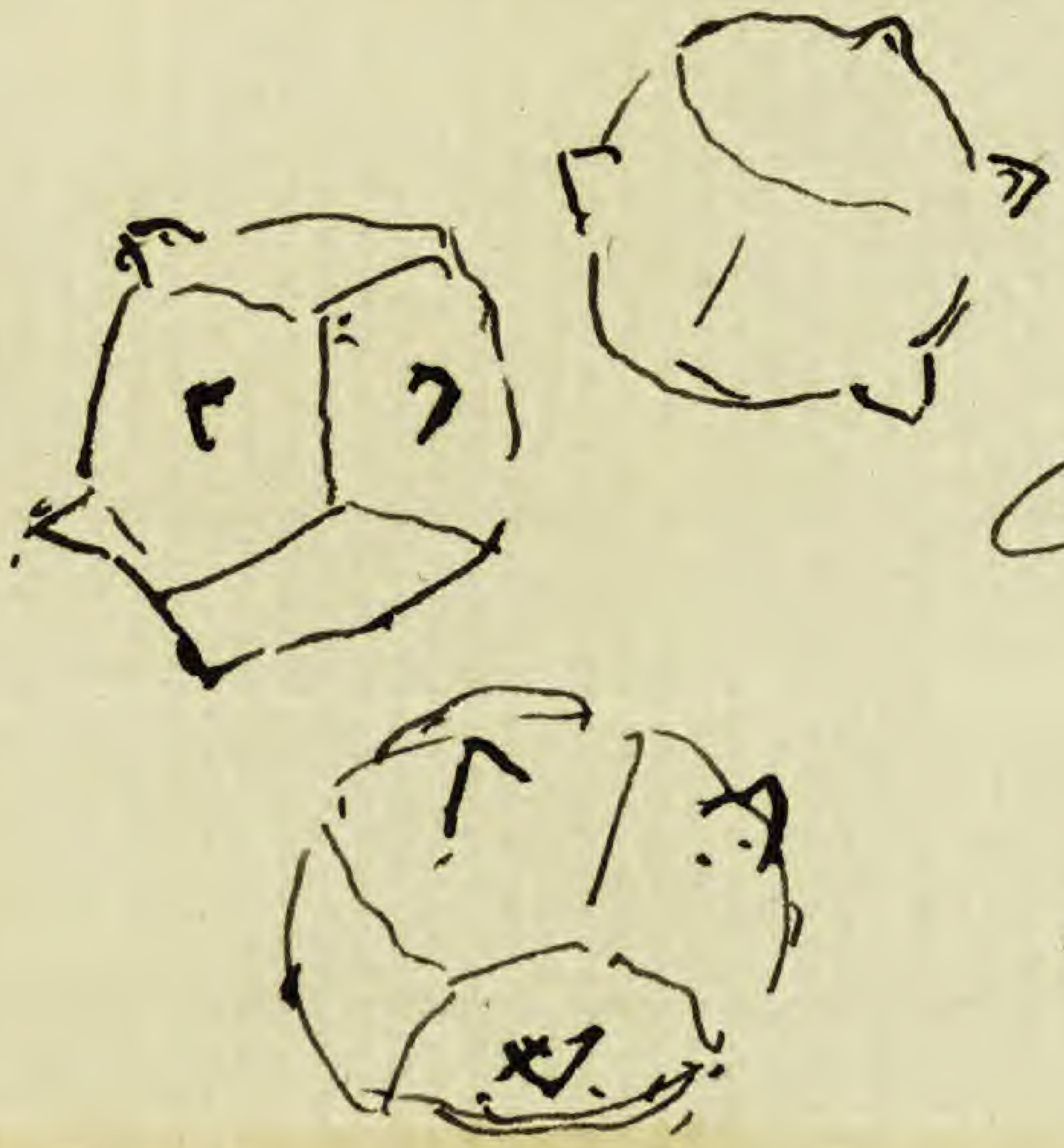

Cupressus MacNabiana

A Murray

Edinb. new Philos Journ

I 1855. tab 11 p 293

Californ, lat 41°

An evergreen shrub of low, gnarled growth

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MISSOURI BOTANICAL GARDEN

10848

senegalensis Lam.
Mukia scabrella Ndn.
Rhynchocarpa rostrata Ndn.
  welwitckii Ndn.
Sicydium Lindheimeri Ndn.
Trichosanthes anguinea L.
  cucumerina L.
  ovigera Hort.
  palmata Hort.
    — *var.* coccinea
    —*var.* fruct. minor.
    —*var.* intermedia

CUPRESSINEAE

Biota orientalis Endl.
    plur. var.
  pendula Endl.
    —*var.* filiformis
    —*var.* intermedia
  pyramidalis Cav.
    —*var.* compacta
    —*var.* pumila
Callitris quatrivalvis Vent.
Chamaecyparis thurifera Endl.
Cupressus ambigua Hort. Pan.
  Benthamii Endl.

DIPSACEAE

Cephalaria ambrosioides R.S.
  cretacea R. S.
  dipsacoides Boiss.
  joppensis Coult.
  leucantha Schrad.
    —*var.* albescens
  pilosa Boiss. et Heldr.
  radiata Grisb. et Sch.
  rigida R. S.
Dipsacus ferox Loisl.
  sylvestris Mill.
Knautia orientalis L.
Scabiosa acutiflora Rchbch.
  Boissieri Hort. Matr.
  calyptrocarpa St. Amans.
  cretica Lin.
  dichotoma Ucr.
  maritima L.
    —*var.* atropurpurea
    —*var.* grandiflora
    —*plur. subvar.*
  micrantha Desf.
  prolifera L.
  rutaefolia Vahl.

Acalypha alopecuroides Jacq.
  caroliniana Mich.
  cordata Thg.
  rubra Willd.
Buxus balearica Lam.
  chinensis Lk.
  Fortunei Hort.
    —*var.* rotundifolia
  japonica Müll.
  sempervirens Lin.
    —*var.*.fol.argenteo-varieg.
    —*var.* fol. aureo varieg.
Cnidoscolus napaefolius Pohl.
  quinquelobus Pohl.
Coelebogyne ilicifolia J. Smith.
Croton penicillatum Vent.
Euphorbia acanthothamnus Bss.
  aleppica Lin.
  altissima Boiss.
  atropurpurea Brouss.
  aulacosperma Bois.
  Bertholeti Webb.
  biglandulosa Desf.
  biternata Jacq.
  Bivonae Steud.
  calendulaefolia Delil.
  ceratocarpa Ten.

seed 2¼-2½ lines
broad winged

Cupr. Arizonica Greene
Cones 8-11 lines
scales 6

Wulfeni Hopp.
Excaecaria sebifera Mull.
Geblera suffruticosa F. et M.
Homalanthus populifolia Grah.
Jatropha curcas L.
  janipha L.
Phyllanthus juglandifolius W.
  retusus Dennst.
Ricinus cairensis Hort. Ber.
  communis L.
  —*plur. var.*

FUMARIACEAE

Ceratocapnos umbrosa Dr.
Corydalis bulbosa Pers.
Cysticapnos africana Gaert.
Fumaria agraria Lag.
  alexandrina Ehrbg.
  anatolica Boiss.

  hymenodes Herit.
  laciniatum Willd v. siculum
  macrodenum Herit.
  malacoides Willd.
  Manescari Coss.
  moschatum Willd.
  parviflorum Jord.
  pulverulentum Willd.
  redolens Coss. et Dr.
  reflexum Delil.
  romanum Willd.
Geranium abortivum De Not.
  albiflorum Ledeb.
  batrachioides Cav. Lk.
  bohemicum L.
  collinum Willd.
  columbinum L.
  cristatum Stev.
  dissectum Lin.
  divaricatum Ehrh.
  favosum Hochst.

cucullatum Ait.
decipiens Haw.
dennisianum Sweet.
denticulatum Jacq.
elongatum Steud.
fastuosum Hort.
ficifolium Hffmg.
fimbriatum Hort.
gibbosum Willd.
grandiflorum Willd.
  —*plur. var.*
graveolens Ait.
Heritieri Jacq.
Hookeri Hort.
humifusum Willd.
hybridum Ait.
ignescens Sweet.
inodorum Willd.
inquinans Ait.
  —*var.* bracteatum
  —*var.* devolvens
  —*var.* fol. variegatis

10849
MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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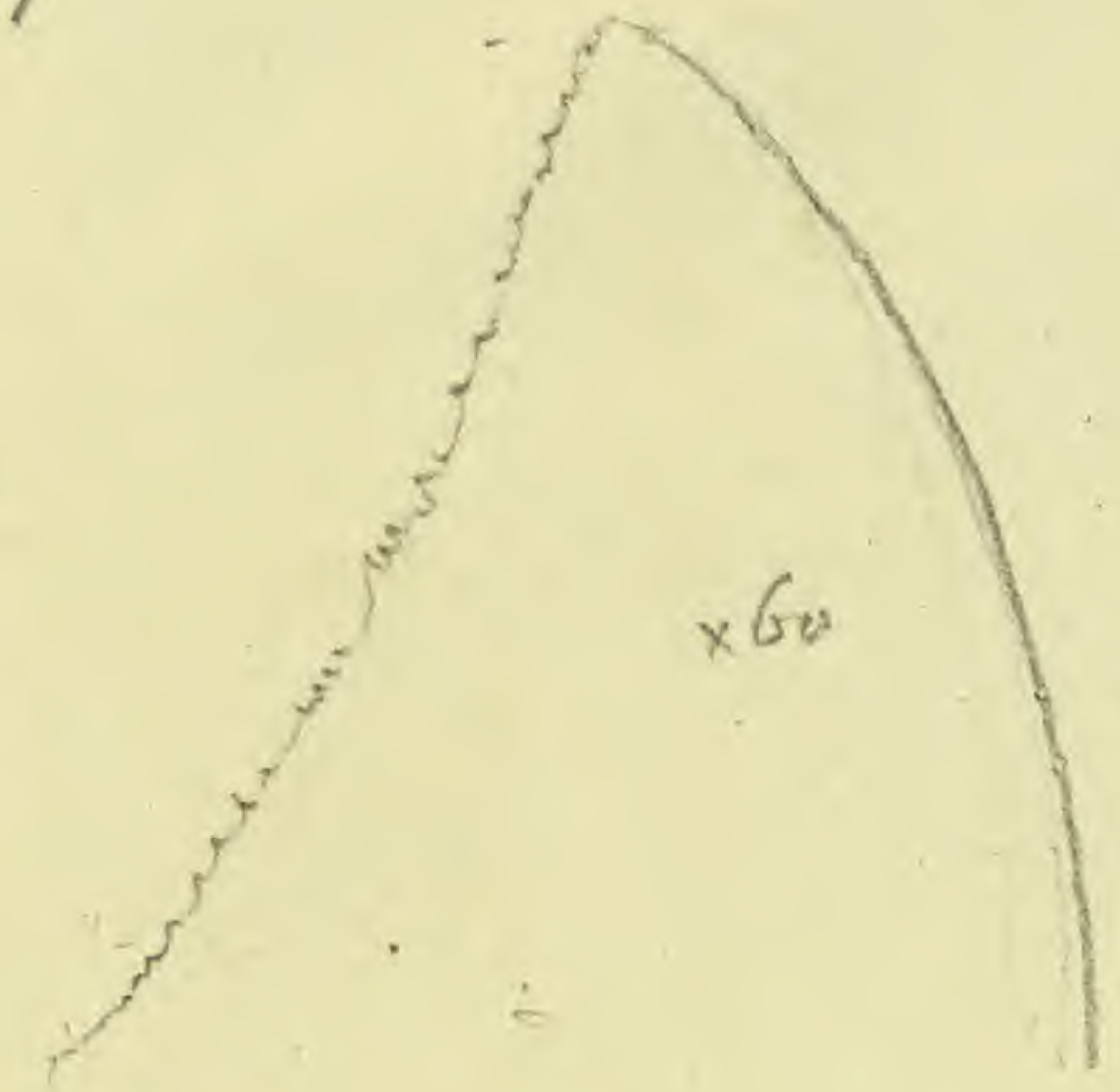
MISSOURI BOTANICAL GARDEN

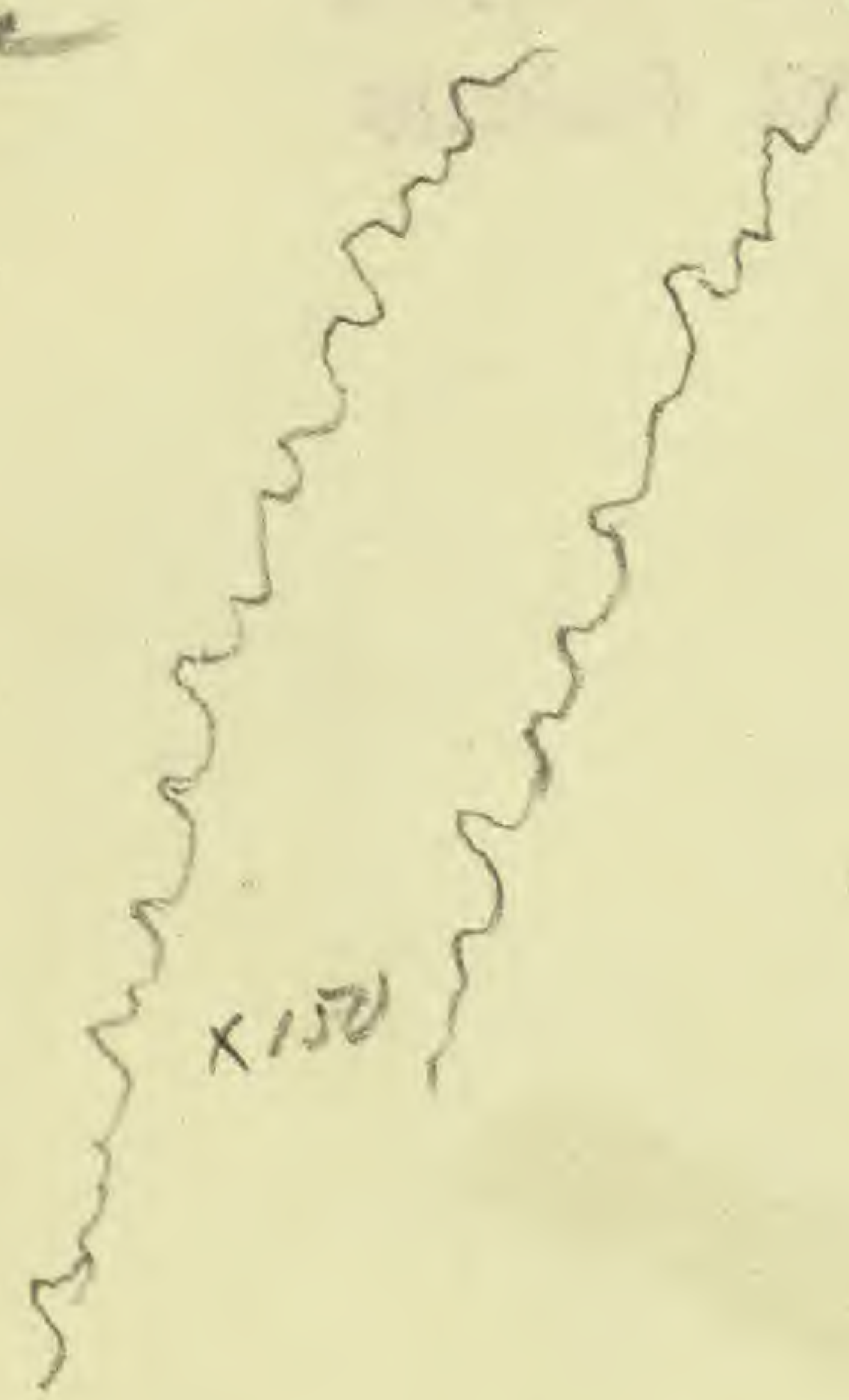
Pinus Arizonica Greene Oct Nov 17. 1881

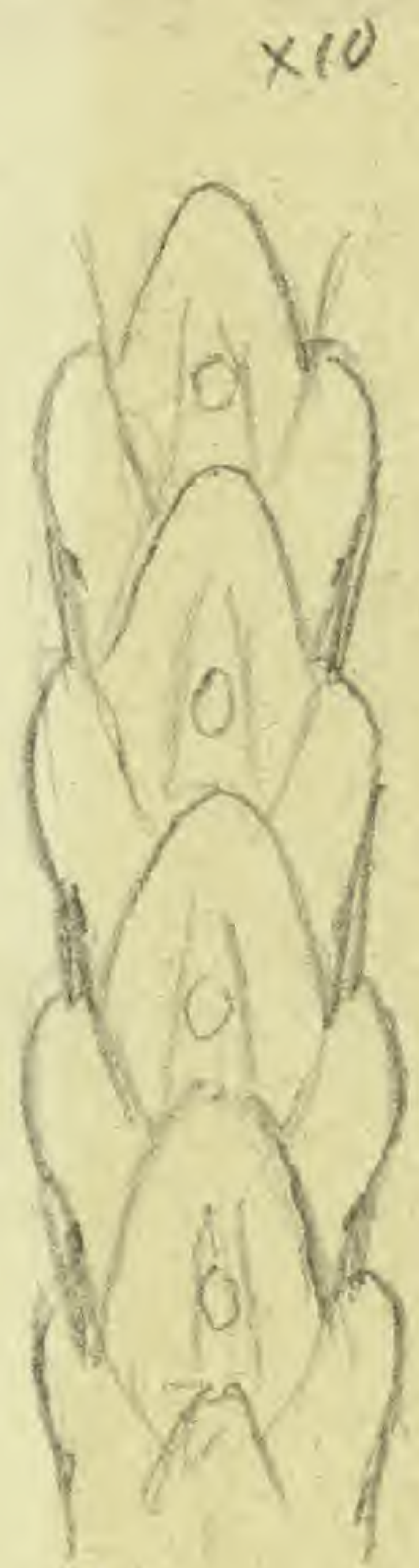
Cones of 6 scales, globose, 8-11 lines diam. scales Arizo Oct 1880

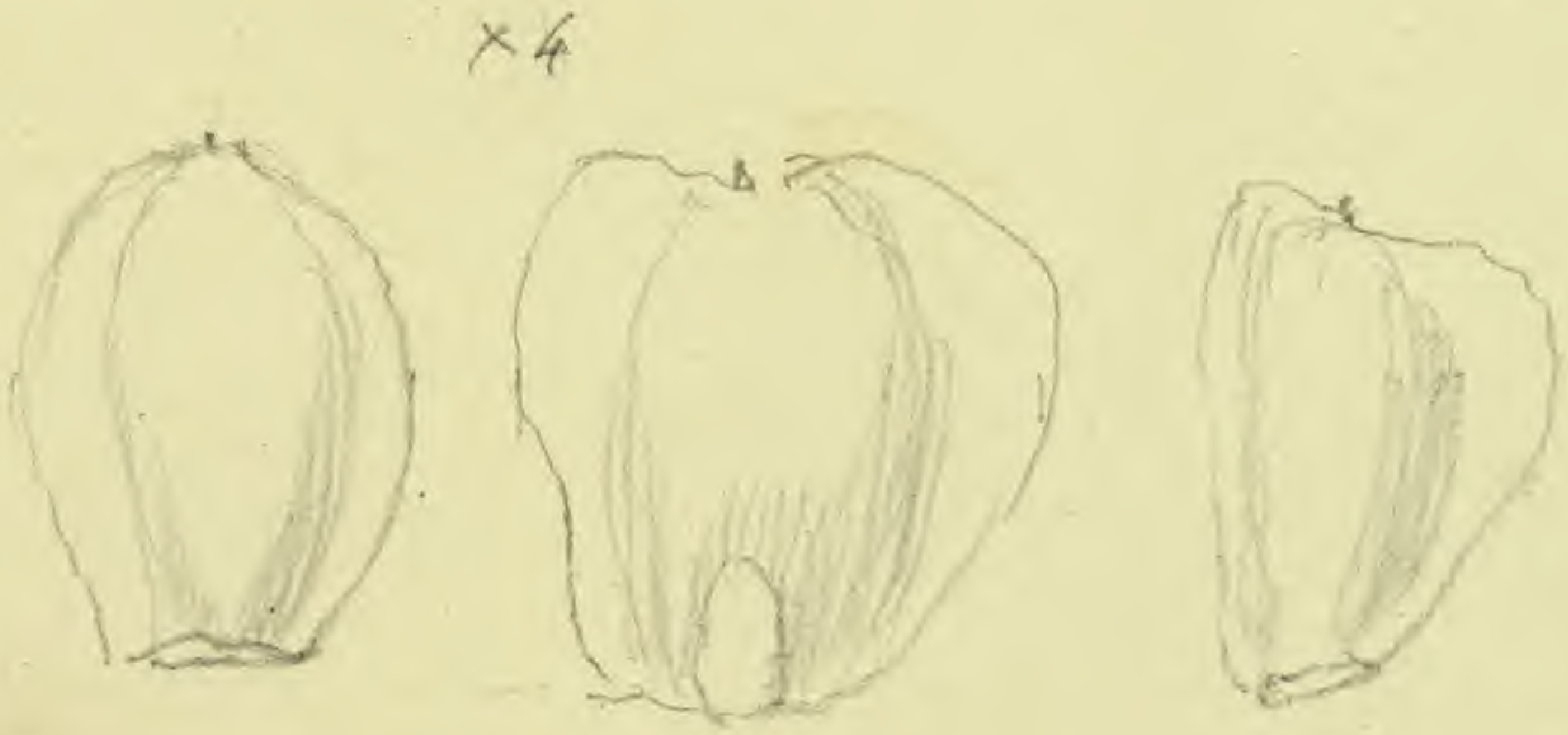
Knobbed above middle

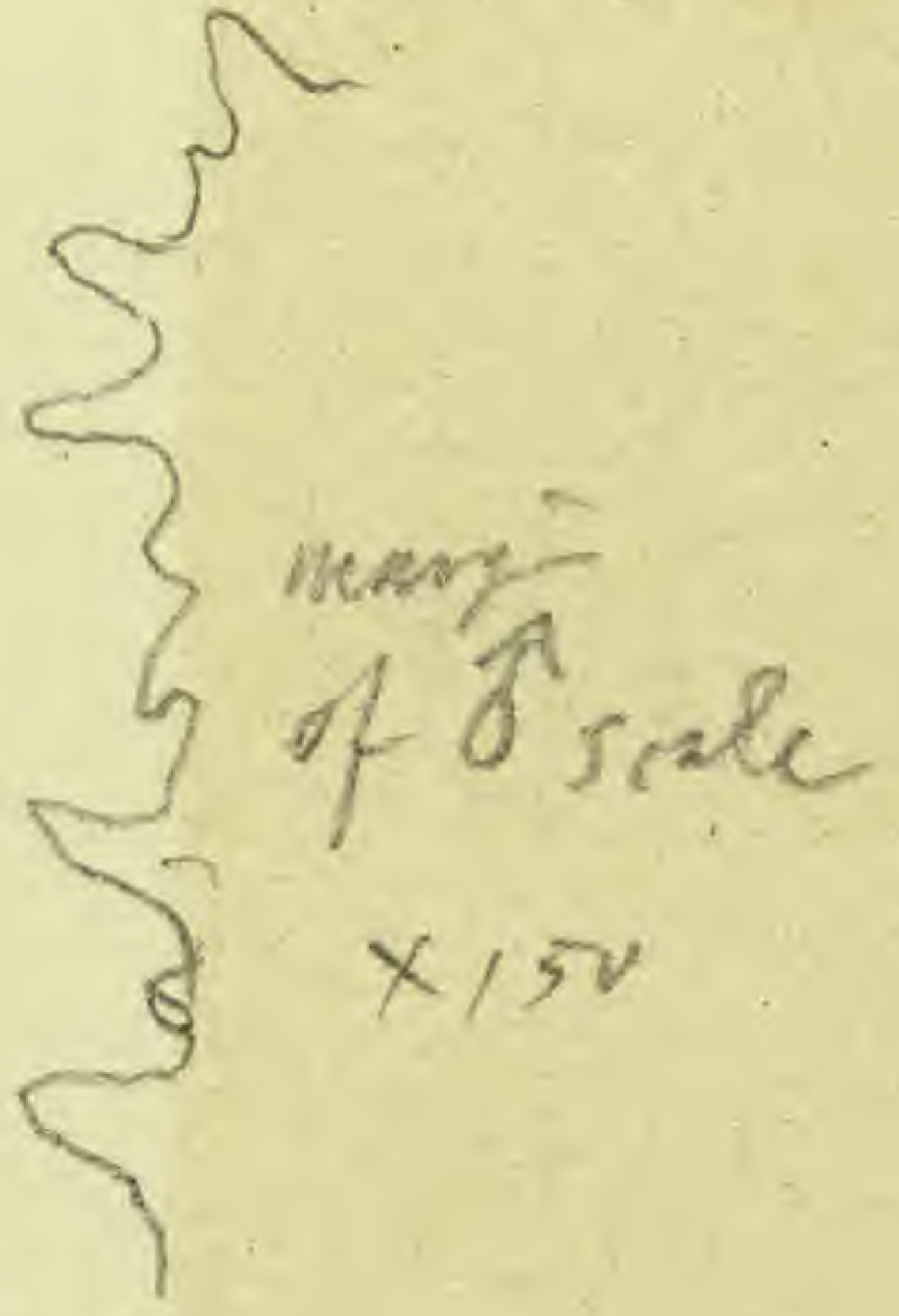
bluntly



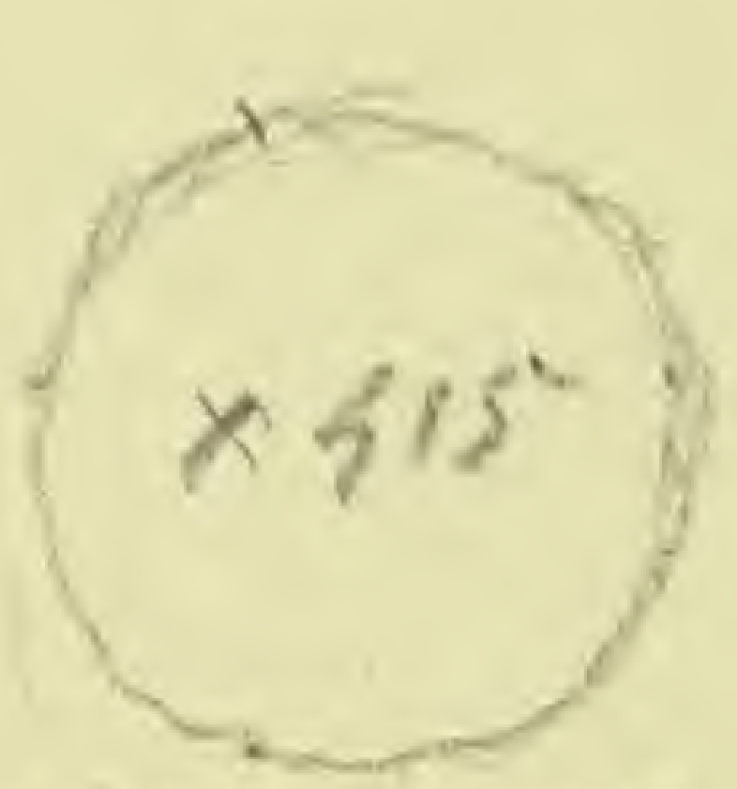








Cones 6 scales, knobs



Pollen 0.025-0.027 mm

10850

Leitch & Corlies
DRUGGISTS
South West Corner Fifth
and Market
Streets

0 1 2 3 4 5 6 7 8 9 10
cm
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MISSOURI
BOTANICAL
GARDEN

(3)

along the water course. on each side ~~often~~ an upper peak of the higher **Chir-ri-ca-huas**, stretching to the north from

J. G. Lemmon, Fort Bowie, Arizona; Oct 19 1881

the valley of Rucker. I found, one afternoon in Sept. a very strikingly

Cupressus Erythrophlaea Engelm n. sp.

beautiful **Cypress**, that I had never seen before. It formed a thin line, crowning a ridge, say three to eight rods wide and nearly one mile in length; afterward I found specimens scattered

to a fine pyramidal or conical tree. Other trees show their trunks

10851

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trees
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Other

(3) on each side of that very ridge
along the water courses & by the per- [illegible]
manent pools. A ~~Now for~~ reaching
t last and apparently flourish-
ng finely, the floor of the valley
t an altitude of only about 5000 ft.
e upper altitude about 10000 ft.
Now for the description: the
mall trees are generally very sym-
etrical, the limbs coming out reg-
larly on the four sides; sometimes
e lower limbs touch the ground
hus forming a broad base, ~~the~~
to a fine pyramidal or conical
tree. Other trees show their trunks
having short lower limbs giving
a fusiform outline. ~~The larger~~

The larger trees were detected
from a distance by the peculiar
outward bending of the upper
limbs, causing a somewhat flat-

10852

ned top, but suggesting nothing f the Monterey Cypress. This ap- earance is caused by a half doz- n or more of the upper limbs iss- ng obliquely to the same elevation le around, then bending slightly utward, generally loaded with cones.

The size sometimes attains three and four feet diameter, eaching a height from forty to seven- y feet. The fruit is often found n small trees only a few feet in eight. Those on the young trees re tuberculated, on the older limbs more rounded in form. These dis- inctions will tell you the location f the cones sent.

The bark on the trunk is gray- h, thick, with deep, longitudinal

10853

bark 5

rrows with cross reticulations-
t break up both bark and
rrows into short-sections of a
inches each. No long furrows or
es were detected on any of the
s. The limbs flake off their
dermis annually and remain
the most-part quite smooth;
inner, juicy bark is exposed
d is more or less of a bright, red-
h-brown color. Often patches of
previous years growth remain on form-
large, discolored, mottled spots.
I made three pilgrimages to different-
lities and have secured a flour-sack
ones; climbed a tree 60+ in height-
tting represantive limbs from which
have made some half-dozen good
ecimens of about-eighteen inches in
gth and two and a half in dia. I
so cut with my hatchet-into

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10854

te side of the tree, and by great la-
r succeeded in getting out a large
hip. Both cones and wood sec-
ns have already been sent to the
pot awaiting our departure. If
is should prove interesting, you
hall have full specimens forward-
d from Oakland. where we hope
on to hear your report.

Now, the description of Palmer's C. Guada-
pensis seems to fit this in many
ces, but I cannot think that in-
lar tree can be the same as this
tra-continental. I have not seen,
wever, Greene's description of his
Arizonica, which this may be.
o, this shows a wide extension of growth
m the far northern San Francisco
s. to this Station only 40 miles from
Mexo. Bound. It is, at least,

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10855

ther s
these
valle
nd (
pedill
ion.

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7

ter surprising. that though some
these trees grow on the floor of
valley, no Cypress trees. were
und by any of the exploring
peditions. that have visited this
gion.

J. G. Lemmon

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10856

Cupressus macrocarpa ?

Watson in Proc. Am. Ac.
(1876) 9. 119

C. Guadalupensis Watson
Proc. Am. Ac. (1879) 14. 300
Flor Calif 2. p. 114 (1880)

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